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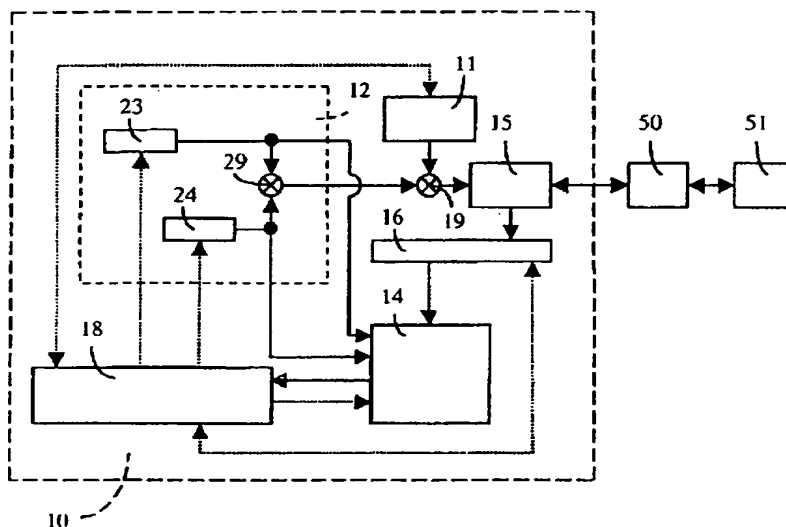
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- (54) Title:** APPARATUS AND METHOD FOR MEASURING CHROMATIC DISPERSION BY VARIABLE WAVELENGTH



- (57) Abstract:** The present invention relates to an apparatus (10) that allows to characterise or measure the chromatic dispersion in an optical fibre segment (50) by accessing a single end of the fibre itself (50) and measuring the phase shift between modulating signals of impulsive kind generated by a signal generator (12) and the same modulation signals reflected by a remote end of the fibre (51). The invention further relates to the method for measuring the chromatic dispersion of the optical fibre (50). Thanks to the invention, the apparatus (10) does not require an absolute external reference signal and allows to determine the chromatic dispersion of the fibre (50) being measured as the wavelength of the optical signals varies.

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